

March 20, 2003

RE: Milk Barn 095-16662-00119

TO: Interested Parties / Applicant

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4 (d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, ISTA Building, 150 W. Market Street, Suite 618, Indianapolis, IN 46204, **within (18) eighteen days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) the date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for consideration at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosure

March 20, 2003

Anne LaRue
Milk Barn
800 East 19th Street
Anderson, IN 46016-4504

Re: Registered Construction and Operation Status
095-16662-00119

Dear Ms. LaRue:

The application from Milk Barn, received on January 13, 2003, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.1, it has been determined that your emission source, located at 1002 Nichol Avenue, Anderson, IN 46016-3460, is classified as registered. The emission source consists of one (1) soil vapor extraction system with a maximum air flow rate of 530 actual cubic feet per minute.

The emission source also includes gasoline dispensing operations during the soil vapor extraction project. Gasoline dispensing operations are classifiable as exempt from air pollution permit requirements under 326 IAC 2-1.1-3 upon completion of the soil vapor extraction project.

The following conditions shall be applicable:

1. The motor vehicle fuel dispensing operations shall be equipped with and utilize a certified vapor collection and control system which is properly installed and operated as stated in 326 IAC 8-4-6(e). Records and reports adequate to determine compliance shall be retained for a minimum period of two (2) years after such record or report is made, and shall be made available to OAQ upon request.
2. An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.1-2(f)(3). The annual notice shall be submitted to:

Compliance Data Section
Office of Air Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

no later than March 1 of each year, with the annual notice being submitted in the format attached.

Rule 326 IAC 8-1-6 does not apply to the soil vapor extraction system since potential volatile organic compound (VOC) emissions are less than 25 tons per year.

This registration is the first air approval issued to this source. The source may operate according to 326 IAC 2-5.5.

Any change or modification which may increase the potential VOC emissions to 25 tons per year or more from the equipment covered in this registration must be approved by the Office of Air Quality (OAQ) before such change may occur.

Sincerely,

Original Signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

ARD

cc: File - Madison County
Madison County Health Department
Anderson Office of Air Management
Air Compliance Section Inspector - D.J. Knotts
Compliance Data Section - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3).

Company Name:	Milk Barn
Address:	1002 Nichol Avenue
City:	Anderson, IN 46016-3460
Authorized individual:	
Phone #:	
Registration #:	095-16662-00119

I hereby certify that Milk Barn is still in operation and is in compliance with the requirements of Registration 095-16662-00119.

Name (typed):
Title:
Signature:
Date:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name: Milk Barn
Source Location: 1002 Nichol Avenue, Anderson, IN 46016-3460
County: Madison
SIC Code: 5541
Application No.: 095-16662-00119
Permit Reviewer: Allen R. Davidson

On January 13, 2003, the Office of Air Quality (OAQ) received an application from Milk Barn relating to the construction and operation of one (1) soil vapor extraction system with a maximum air flow rate of 530 actual cubic feet per minute. The emission source also includes gasoline dispensing operations.

History

Gasoline dispensing operations are normally classifiable as exempt from permit requirements. However, Milk Barn will be conducting operations outside the scope of gasoline dispensing. Therefore, this emission source is being treated as a new emission source for the purposes of this review.

Enforcement Issues

There are no enforcement actions pending against this emission source.

Recommendation

The staff recommends to the Commissioner that the emission source be issued a registration. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on January 13, 2003.

Emission Calculations

See Appendix A of this document for detailed emissions calculations. (2 pages)

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

The following table reflects the existing source potential to emit. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit:

Pollutant	Potential To Emit (tons/year)
PM	0
PM-10	0
SO ₂	0
VOC	14.1
CO	0
NO _x	0

HAP's	Potential To Emit (tons/year)
Benzene	0.35
Toluene	1.19
Ethyl Benzene	2.56
Xylenes	9.96
TOTAL	14.06

The potential to emit volatile organic compounds (VOC) is less than 25 tons per year, but greater than ten tons per year. Therefore, the existing source is classifiable as a registration under 326 IAC 2-5.5.

County Attainment Status

The source is located in Madison County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Madison County has been designated as attainment or unclassifiable for ozone and for all other pollutants. Therefore, emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

This source is not a major source for Prevention of Significant Deterioration, 326 IAC 2-2. No attainment regulated pollutant has the potential to emit at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

Federal Rule Applicability

There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.

There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants)

This source is not subject to 326 IAC 2-4.1-1 (New Source Toxics Control). The source does not have potential to emit 10 tons per year of any HAP or 25 tons per year of any combination of HAP.

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it does not have the potential to emit more than one hundred (100) tons per year of any pollutant specified in the rule.

326 IAC 8-4-6 (Gasoline Dispensing Facilities)

This source is subject to 326 IAC 8-4-6 (Gasoline Dispensing Facilities). This rule requires the motor vehicle fuel dispensing operations to be equipped with and utilize a certified vapor collection and control system. Records and reports adequate to determine compliance shall be retained for a minimum period of two (2) and years made available to the agency upon request.

State Rule Applicability - Soil Vapor Extraction System

326 IAC 8-1-6 (General VOC Reduction Requirements)

This facility is not subject to 326 IAC 8-1-6 (General Reduction Requirements) because the potential to emit volatile organic compounds is less than twenty-five (25) tons per year. Therefore, the BACT (best available control technology) requirements do not apply.

Conclusion

The construction and operation of this soil vapor extraction system shall be subject to the conditions of the attached registration, No. 095-16662-00119.

Appendix A: Emission Calculations

Page 1 of 2

Company Name: Milk Barn
Address City IN Zip: 1002 Nichol Avenue
ID: 095-16662-00119
Reviewer: Allen R. Davidson
Date: 02/17/03

Molecular weight of benzene:	78.11 lb/mol
Molecular weight of toluene:	92.13 lb/mol
Molecular weight of ethylbenzene:	106.16 lb/mol
Molecular weight of xylene:	106.18 lb/mol

Benzene:

$$\frac{10.0 \text{ part} *}{1000000} \times \frac{530 \text{ scf} *}{\text{min}} \times \frac{78.11 \text{ lb} *}{\text{mol}} \times \frac{\text{mol} *}{379.48 \text{ scf}} \times \frac{60 \text{ min} =}{\text{hr}} = 0.0655 \frac{\text{lb}}{\text{hr}}$$

Toluene

$$\frac{29.0 \text{ part} *}{1000000} \times \frac{530 \text{ scf} *}{\text{min}} \times \frac{92.13 \text{ lb} *}{\text{mol}} \times \frac{\text{mol} *}{379.48 \text{ scf}} \times \frac{60 \text{ min} =}{\text{hr}} = 0.2239 \frac{\text{lb}}{\text{hr}}$$

Ethylbenzene

$$\frac{54.0 \text{ part} *}{1000000} \times \frac{530 \text{ scf} *}{\text{min}} \times \frac{106.16 \text{ lb} *}{\text{mol}} \times \frac{\text{mol} *}{379.48 \text{ scf}} \times \frac{60 \text{ min} =}{\text{hr}} = 0.4804 \frac{\text{lb}}{\text{hr}}$$

Xylene

$$\frac{210.0 \text{ part} *}{1000000} \times \frac{530 \text{ scf} *}{\text{min}} \times \frac{106.18 \text{ lb} *}{\text{mol}} \times \frac{\text{mol} *}{379.48 \text{ scf}} \times \frac{60 \text{ min} =}{\text{hr}} = 1.8685 \frac{\text{lb}}{\text{hr}}$$

	lb/hr	ton/year
Benzene	0.065	0.29
Toluene	0.224	0.98
Ethylbenzene	0.480	2.10
Xylene	1.869	8.18
<i>Total VOC</i>	<i>2.638</i>	<i>11.556</i>

Appendix A: Emission Calculations
Petroleum Liquid Loading Losses

Page 2 of 2

Company Name: Milk Barn
Address City IN Zip: 1002 Nichol Avenue
ID: 095-16662-00119
Reviewer: Allen R. Davidson
Date: 02/17/03

$$L_L = \frac{12.46 * S * P * M}{T}$$

where S = 0.5 (saturation factor)
P = 6.2 psi true vapor pressure
M = 66 molecular weight of vapors
T = 530 deg. R

$$= 4.81003 \text{ lb/1000 gal loaded}$$

$$\frac{4.81 \text{ lb} *}{1000 \text{ gallon}} \frac{20000 \text{ gallon} *}{7 \text{ day}} \frac{365 \text{ day} *}{\text{yr}} \frac{\text{ton}}{2000 \text{ lb}} = 2.51 \frac{\text{ton VOC}}{\text{yr}}$$